FLAT TV™

English

PHILIPS

Introduction

Thank you for purchasing this television set.
This handbook has been designed to help you install and operate your TV set.
We strongly recommend that you read it thoroughly.

English

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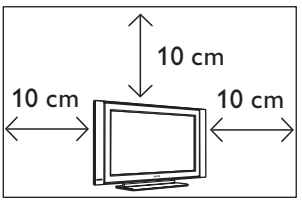
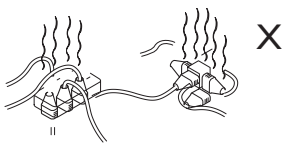
Recycling
The packaging of this product is intended to be recycled. Apply to the local authorities for correct disposal.

Disposal of your old product
Your product is designed and manufactured with highly quality material and components, which can be recycled and reused. When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/976/EC.
Please inform yourself about the local separate collection system for electrical and electronic products.
Please act according to your local rules and do not dispose off your old products with your normal household waste. The correct disposal of your product will help prevent potential negative consequences for the environment and human health.

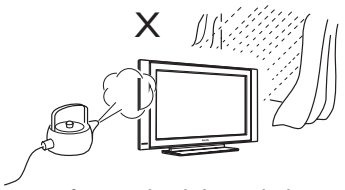
Safety Information



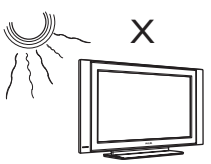
Leave at least 10 cm around each side of the TV set to allow for proper ventilation. Place the set on a stable, level surface. Never cover the ventilation slots of the TV with a cloth or other material. It may cause overheating. Do not insert anything in the ventilation holes. If metal or something flammable is inserted in these holes, it may result in fire or electric shock.



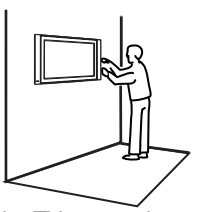
Take care not to connect too many equipment to the same mains socket as it may cause overloading resulting in fire or electric shock.



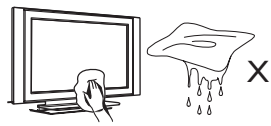
To prevent fire or shock hazard, do not expose your TV to rain or moisture.



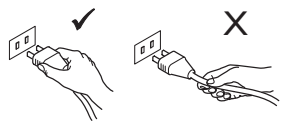
Avoid placing your TV set under direct sunlight or heat.



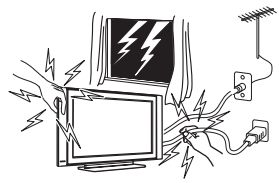
Installation of the TV set on the wall should be carried out by qualified serviceman. Improper and incorrect installation may render the set unsafe.



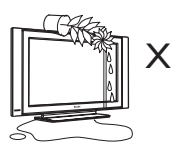
When cleaning the surface or the screen of the set, wipe gently with absorbent cotton or cloth or other soft material like chamois. Do not use too wet a cloth which is dripping with water. Do not use acetone, toulene or alcohol to clean the TV. As a safety precaution, unplug the power cord from the mains.



Pull the power lead by the plug. Do not pull on the power lead. Do not use a poor fitting mains socket. Insert the plug fully into the mains. If it is loose, it may cause arching and result in fire.

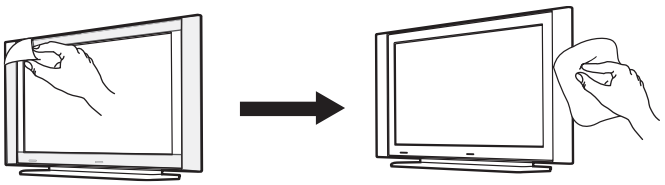


As a safety precaution, do not touch any part of the TV, power lead or aerial lead during lightning storms.



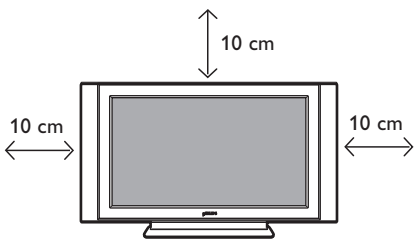
Avoid placing vase filled with water on the TV. Water spilled into the set could result in electric shock. Do not operate set if water is spilled into it. Have it checked immediately by a qualified serviceman.

Preparation / Getting started



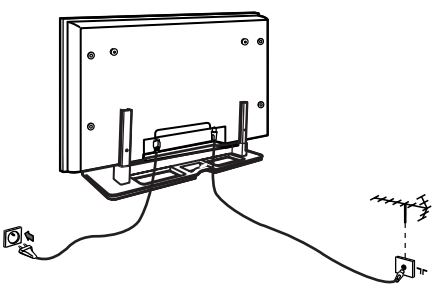
⚠ Do not remove the protective sheet until you have completed the stand/wallmounting and connections. Please handle with care. Use only the soft cloth provided to clean the glossy black front of the TV.

1 Positioning the TV set



Place your TV set on a solid stable surface, leaving a space of at 10 cm around the set.

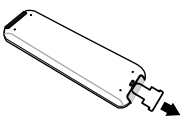
2 Connections



- Insert the aerial plug into the 75Ω socket at the bottom of the set.
- Insert the mains plug into a wall socket (220-240V / 50/60Hz).

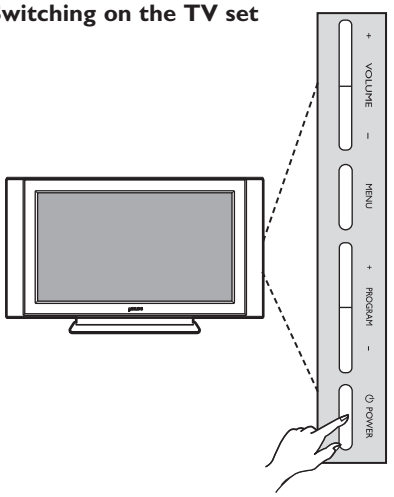
NOTE
For more details on other connections, refer to the connection guide "CONNECT".

3 Using the Remote Control



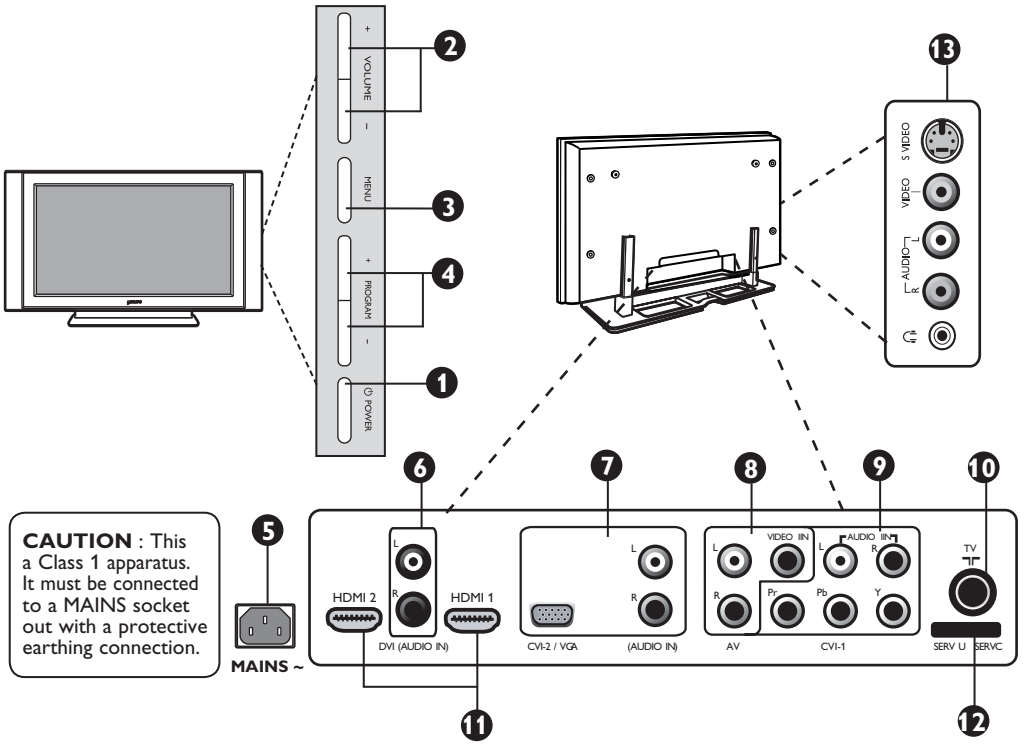
Pull out the plastic sheet from the battery to enable the remote control to operate.

4 Switching on the TV set



- To switch on the TV set, press the **POWER** key. A green indicator comes on and the screen lights up.
- If the TV set remains in standby mode (red indicator), press the **PROGRAM – / +** key on the keyboard or the **P – / +** key on the remote control.

Televison keys and connectors

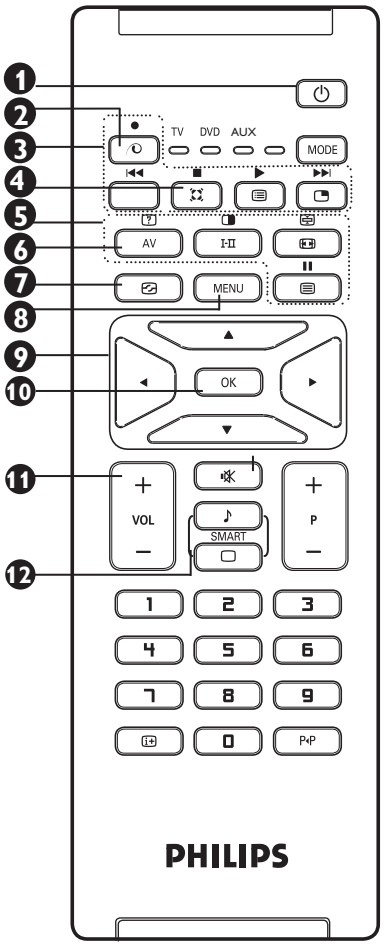


1. **POWER** ⏻ key: to switch the TV on and off. A little power remains on even when the Power switch is turned off.
2. **VOLUME –/+** key: to adjust sound level.
3. **MENU** key: to access or close menus. The PROGRAM –/+ keys can be used to select a menu item and the VOLUME –/+ keys to enter into the selected menu item and make adjustments.
4. **PROGRAM –/+** key: to select programmes.
5. **POWER** socket : Insert the mains plug into a wall socket.
6. **DVI Audio In** socket: for connecting a HD (high definition) equipment or computer with DVI output.
7. **Component Video Inputs - 2 / VGA / Audio In** sockets: to connect to equipment like VCR, Set-Top box, games console and other devices or to an Analogue PC which have the same sockets.
8. **AV** sockets: to connect to equipment like VCR, Set-Top box, games console and other devices which have the same sockets.
9. **Component Video Inputs - 1 / Audio In** sockets: to connect to equipment like DVD, Set-Top box which have the same sockets. Connect the audio inputs of the TV to the outputs of the device together with the Component Video Inputs.
10. **TV** ⌐|⌐ socket : Insert the aerial plug into the 75 Ω ⌐|⌐ socket.
11. **HDMI 1 /HDMI 2** sockets : to connect to set-top boxes, DVD player/recorder, High Definition equipment or Personal Computer.
12. *For service use only.*
13. **Side** sockets: for connecting to devices like camera or camcorder. Also allows you to connect your headphone for your personal listening pleasure.

NOTE

For more details on connections, refer to the guide "CONNECT".

Remote Control keys



1 Standby ⏻

To set the TV to standby mode. To switch the TV set on again, press ⏻, 0 to 9, P – / + or AV key.

2 Pixel Plus

Offers a unique combination of ultimate sharpness, increased depth impression, true natural detail, brilliant and vivid colours. Press key for a Pixel Plus demonstration**.** Press key again to exit demonstration.

3 DVD / AUX

(see "Remote Control (DVD or AUX) on page 7).

4 Surround Sound

To turn on or off the surround sound effect. In stereo, this gives an audio experience the speakers are further apart. For models equipped with Virtual Dolby Surround, you can enjoy Dolby Surround Pro Logic sound effects.

5 Telextext keys (see page 15).

6 AV AV

To display Source List to select TV or peripheral equipment connected to AV, SIDE/SVHS, CVI 1, CVI 2/VGA, HDMI 1 or HDMI 2.

7 Active Control (See page 14).

8 MENU MENU

To call up or exit the TV menus.

9 Cursors

These 4 keys are used for selection and adjustment of menu items.

10 OK OK

Confirms selection.

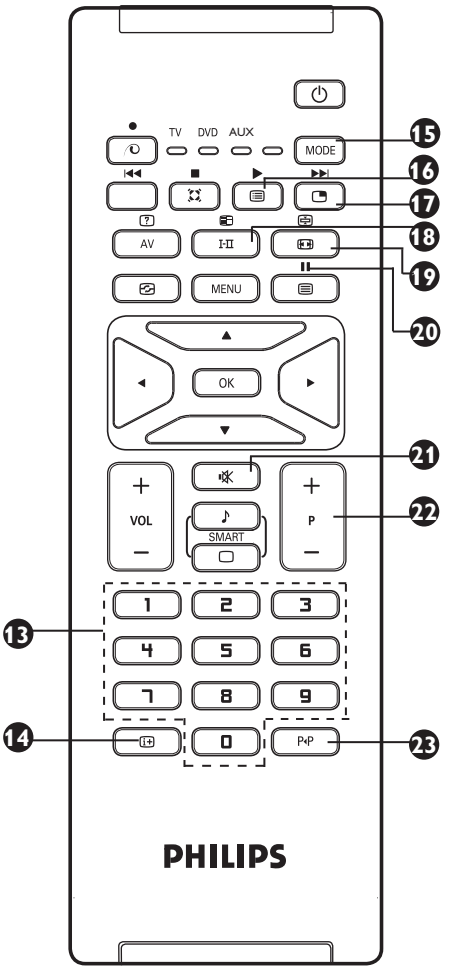
11 Volume (+ VOL –)

Increases or decreases the sound level.

12 Smart Picture /Sound

Used to access a series of predefined picture and sound settings (see page 14).

Remote Control keys



13 0 / 9 Numerical keys (0) / (9)
For direct selection of channels. For a 2 digit channel number, the 2nd digit must be entered before the dash disappears.

14 Screen information (i+)
To display/remove the channel number, the sound mode, the remaining time of the sleeptimer and the *signal strength indicator. Press key for more than 5 seconds to permanently display the channel number on screen. to remove channel number, press key again for more than 5 seconds.

15 Mode (MODE)
Select between TV, DVD and AUX mode (see "Remote Control (DVD or AUX) on page 7).

16 Programme List (☰)
To display / clear the list of programmes. Press ▲ ▼ keys to select a programme and ▶ key to display it.

17 Picture-in-Picture (⧉)
To display a PIP window on the TV screen (see pages 20-21 on "PIP (Picture-in-Picture) feature".

18 Sound mode (I-II)
Used to force programmes in **Stereo** and **Nicam Stereo** to **Mono** or, for bilingual programmes, to choose between **Dual I** or **Dual II**. *The* **Mono** *indication is red when in forced position.*

19 Screen Format (⛶) (see page 13).

20 DVD / AUX
(See "Remote Control (DVD or AUX) on page 7).

21 Mute (🔇)
Press key to turn off sound and press again to turn on sound again.

22 Selecting TV programmes (P – / +)
To select the next or previous programme. The number and the sound mode are displayed for a few seconds. *For some TV programmes, the title of the programme appears at the bottom of the screen.*

23 Previous/Present programme (P↺P)
To alternate between the last viewed and present programme.

* The signal strength indicator shows the signal strength of the reception of the programme you are watching.

Remote Control keys (DVD or AUX)

The remote control also allows you to control the main functions of some Philips DVD players.

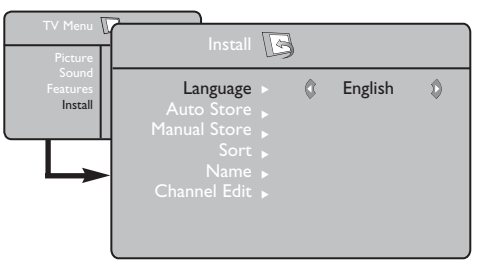
Press the MODE key to select the required mode: **DVD** or **AUX**.
The remote control indicator lights up to display the selected mode. It switches off automatically after 20 seconds if left idle. The mode automatically returns to TV mode.
The following keys are operational, depending on the equipment:

- standby
- fast rewind
- stop
- play
- fast forward
- record
- pause
- display and exit menu
- programme selection
- navigation and adjustments, confirms selection
- 0 to 9 digit keys

Note : Functions not available to DVD-R device.

Menu Language

Before you proceed to do Auto Store of channels, select your desired TV menu language.



1. Press MENU key on the remote control to access the TV menu on the screen.
2. Press ▲ ▼ keys repeatedly until **Install** is selected.
3. Press ► / OK key to access Install menu. (**Language** is highlighted).
4. Press ◄ ► keys to select your language.
5. To return to previous menu, press MENU key.
6. To exit the menu, press the i+ key.

*** Selecting the language**

If you have selected the wrong language for one reason or another and do not understand the language to operate the set, do the following to bring you back to your preferred language :

– press i+ key to exit the existing menu.
– press MENU key to access the TV menu.
– press ▼ key repeatedly until the **FOURTH** item in the TV menu is highlighted.
– press ► / OK key to go into the **Install** menu.
– press ◄ ► keys to select your preferred language (the menu will now appear in the chosen language). You can proceed to install the TV channels automatically.

Auto Store

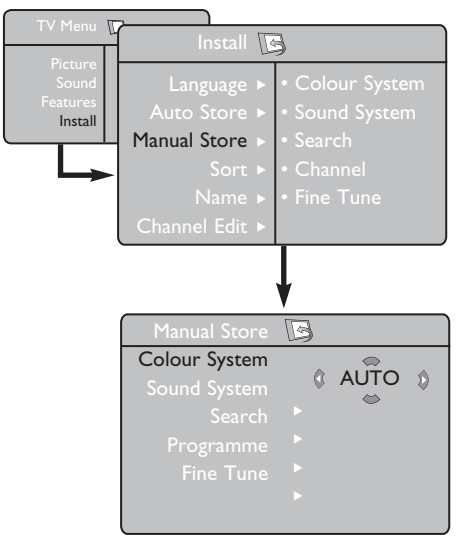
1. Press MENU key.
2. Press ▲ ▼ keys repeatedly until **Install** is selected and press ► / OK key to access Install menu.

3. Press ▼ key repeatedly until **Auto Store** is selected.
4. Press ► / OK key to start automatic tuning of channels. All the available TV channels will be stored. The display shows the progress of the search and the number of channels found. This operation will take a few minutes to complete.
5. To exit or interrupt the search before it is completed, press i+ key. **Important** : If you interrupt the search during auto store, not all channels will be stored. For all channels to be stored, you need to do a complete auto store search again.

Manual Store

You can choose to tune your channels manually. Manual tuning allows you to store each programme manually.

1. Press MENU key.
2. Press ▲ ▼ keys repeatedly until **Install** is selected and press ► / OK key to access Install menu.
3. Press ▼ key repeatedly until **Manual Store** is selected and press ► / OK key to access Manual Store menu.



4. Press ▲ ▼ keys to select a setting.

– **Colour System**
Press ◄ ► to select **Auto**, (automatic detection), **PAL**, **NTSC 3.58**, **NTSC 4.43** or **SECAM**.

– **Sound System**
Press ◄ ► to select **Auto**, (automatic detection), **BG**, **I**, **DK** or **M**.

– **Search**
Press ◄ ► to start manual tuning of channel. Searching stops once a transmitting channel is found.

– **Channel**
Press ◄ ► or 0 to 9 keys to key in the channel.

– **Fine Tune**
If the channel reception is not satisfactory, press ◄ ► to adjust accordingly.

5. To return to previous menus, press MENU key.
6. To exit the menu, press i+ key.

Sort

Sort feature allows you to change the channel number for a particular TV station

1. Press MENU key.
2. Press ▲ ▼ keys repeatedly until **Install** is selected and press ► / OK key to access Install menu.

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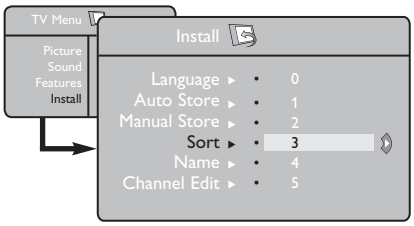
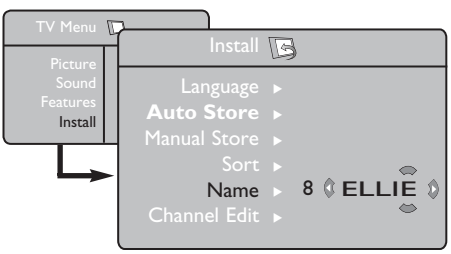


3. Press ▼ key repeatedly until **Sort** is selected and press ► / OK key to access sort mode.
4. Press ▲ ▼ keys to select the channel number you want to sort to and press ►/ OK key to enter sorting mode (The arrow cursor now points to the left).
5. Press ▲ ▼ keys to select the new channel number and confirm with the ◄ / OK key. (The arrow points to the right and sorting is completed).
6. Repeat steps 4 and 5 for each channel number you wish to re-number.
7. To return to previous menu, press MENU key.
8. To exit the menu, press i+ key.

Name

Name feature allows you to enter a name for any channel you select.

1. Press MENU key.
2. Press ▲ ▼ keys repeatedly until **Install** is selected and press ► / OK key to access Install menu.
3. Press ► / OK key to access Install menu.

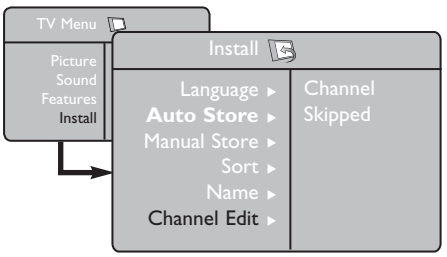


4. Press ▼ key repeatedly until **Name** is selected and press ► / OK key to access Name mode.
5. Press ▲ ▼ keys to select the channel you want to name.
6. Press ► key to move to the first character display area and press ▲ ▼ keys to key in the first character.
7. Press ► key to move to the next character display area and continue to key the next character with the ▲ ▼ keys. (You can key up to a maximum of 5 characters).
8. Press ► key to store name. The name is now indicated on the top left corner.
9. To return to previous menu, press MENU key.
10. To exit the menu, press i+ key.

Channel Edit

Channel Edit feature allows you to edit or skip programmes which have bad or weak signal or programme you do not watch often.

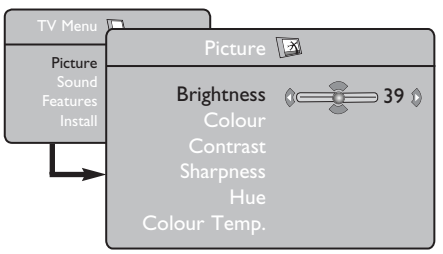
1. Press MENU key.
2. Press ▲ ▼ keys repeatedly until **Install** is selected and press ► / OK key to access Install menu.

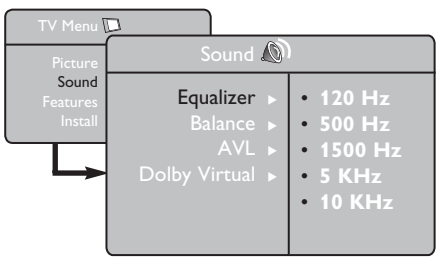


3. Press ▼ key repeatedly until **Channel Edit** is selected and press ► / OK key to access Channel Edit mode.
4. Press ◄ ► or 0 to 9 keys to select the channel you want to skip.
5. Press ▼ key to select **Skipped** and press ◄ ► keys to select **On** option to activate skipping of channel. To deactivate, select **Off** option.
6. To return to previous menu, press MENU key.
7. To exit the menu, press i+ key.

Picture and Sound

1. Press MENU key.
2. Press ▲ ▼ keys to select **Picture** or **Sound**.
3. Press ► / OK key to access **Picture** or **Sound** menu.
4. Press ▲ ▼ keys to select a **Picture** or **Sound** setting and the ◄ ► keys to adjust.
5. To return to previous menu, press MENU key.
6. To exit the menu, press the i+ key.





Description of the Picture settings

Brightness : this changes picture brilliance.

Colour : this changes the intensity of the colour.

Contrast : this changes the difference between the light and dark tones.

Sharpness : this increases or decreases the sharpness level to improve details in the picture.

Hue : this increases or decreases the colour intensity. **Note** : Hue is applicable to NTSC programmes only.

Colour Temp. : this changes the colour rendering: Cool (bluer), Normal (balanced) or Warm (redder).

Description of the Sound settings

Equalizer : to adjust the sound tone (from bass: 120 Hz to treble : 10 KHz).

Balance : this balances the sound on the left and right speakers.

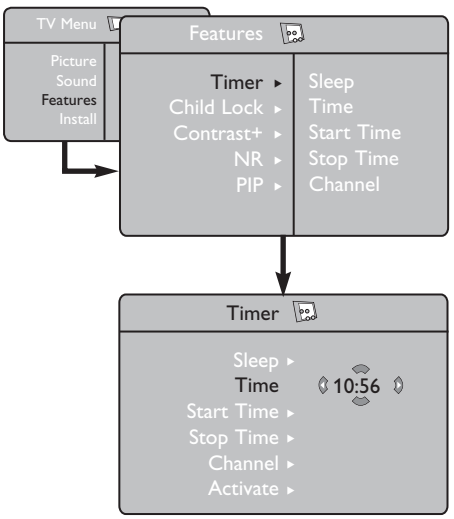
AVL (Automatic Volume Leveller) : this is used to limit sudden increases in sound, for example, during a programme change or advertising slots.

Dolby Virtual : To activate / deactivate the surround sound effect.
You can also access these settings with the ⛶ *key.*

Timer

The Timer feature allows you to set the timer to switch to another channel at a specified time while you are watching another channel. You can also use it as an alarm to switch on the TV at a specified time from standby mode. For the timer to function, the set must not be switched off. Once the set is switched off, the timer is disabled.

1. Press MENU key.
2. Press ▲ ▼ keys repeatedly until **Features** is selected and press ► / OK key to access **Features** menu.
3. Press ► / OK key to access **Timer** menu.
4. Press ▲ ▼ keys to select a **Timer** item.



To make adjustments to activate timer function, use the ◄, ►, ▲, ▼ or **Digit 0-9** keys.

Sleep : to select an automatic standby period.

Time : enter the current time.

Start Time : enter the start time.

Stop Time : enter the standby time.

Channel : enter the number of the channel for the wake-up alarm.

Activate : the settings include:
- **Once** for a single alarm,
- **Daily** for each day,
- **Off** to cancel.

Display : select **On** option to display current time on the screen. To switch off display, select **Off** option.

5. Press ⏻ key on the remote control to put the TV set in standby mode. It will automatically come on at the programmed time. If you leave the TV set on, it will just change channel at the Start Time and will go to standby mode at the Stop Time.

Contrast+ and NR (Noise Reduction)

1. Press MENU key.
2. Press ▲ ▼ keys repeatedly until **Features** is selected and press ► / OK key to access **Features** menu.
3. Press ▲ ▼ keys to select **Contrast+** or **NR** (Noise Reduction) and the ◄ ► keys to select an **On** or **Off** option.
4. To return to previous menu, press MENU key.
5. To exit the menu, press i+ key.

Definition of the feature settings

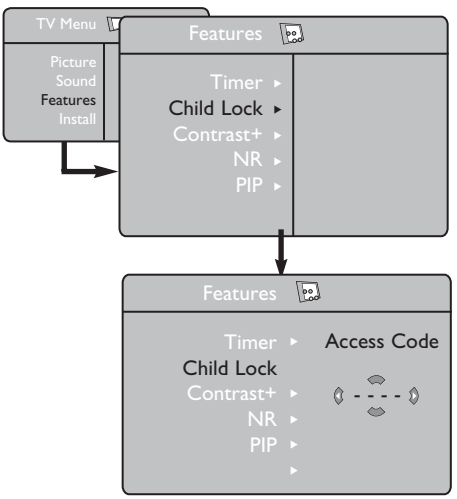
Contrast+ :
– optimise the total contrast of the picture for improved picture visibility.
– select **On** option to activate feature.

NR (Noise Reduction) :
– improves “noisy” (little dots on picture) picture due to weak signal transmission.
– select **On** option to activate feature.

Child Lock

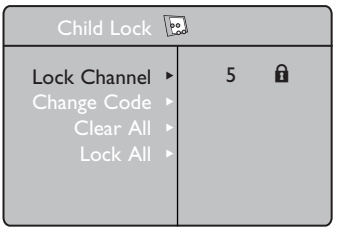
The **Child Lock** feature allows you to lock channels to prevent your children from watching certain programmes.

1. Press MENU key.
2. Press ▲ ▼ keys repeatedly until **Features** is selected and press ▶ / OK key to access **Features** menu.
3. Press ▲ ▼ keys repeatedly until **Child Lock** is selected and press ▶ / OK key to access **Child Lock** mode.
4. Key in the access code **0711** by the **Digit 0-9** keys.. A message **Incorrect** will appear. Key in the access code **0711** again.



5. It will then prompt you to change code. Key in your own 4-digit code by the **Digit 0-9** keys and confirm the new code.

Once the new code is confirmed, the **Child Lock** menu will appear.



In the **Child Lock** menu, use the ▲, ▼, ◀, ▶, **Digit 0-9** and MENU keys to access and activate the Child Lock functions.

Description of the settings:

– Lock Channel
Lock individual channel. A keylock symbol appears besides the locked channel number or the symbol for an unlocked channel number. Press ▶ key to enter channel lock mode and ▲ ▼ keys to select the channel to lock or unlock. Press ◀ ▶ keys to lock or unlock selected channel. To exit from Lock Channel mode and return to Child Lock menu, press MENU key.

– **Change Code**
Key in your new four-digit code using the **Digit 0-9** keys and confirm by keying in the new four-digit again.

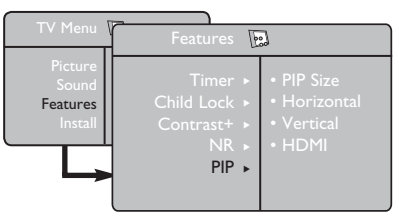
– **Clear All**
Press ▶ key to unlock all locked channels.

– **Lock All**
Press ▶ key to lock all locked channels.

Note : If you switch on the TV set and select a channel that has been locked, you need to key in the Access Code to enter the selected locked channel. To unlock the channel, go the **Lock Channel** in the Child Lock menu and press ◀ ▶ keys until you see this symbol .

PIP (Picture-in-Picture)

The **PIP** (Picture-in-Picture) feature allows you to call up a PIP screen of the **PC** (Personal Computer) or **HD** (High Defintion) device while watching a TV programme.

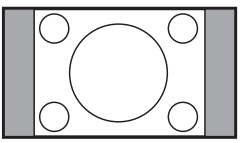


For description of PIP menu items and how it works, refer to the section "PIP (Picture-in Picture)" on pages 20-21.

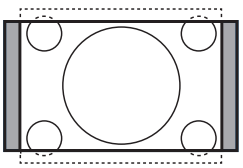
Screen Formats

The pictures you receive may be transmitted in 16:9 format (wide screen) or 4:3 format (conventional screen). 4:3 pictures sometimes have a black band at the left and right of the screen when viewed on a widescreen TV. This function allows you to optimise the picture display on screen.

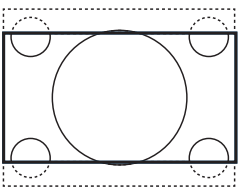
Press ⊡ key (or ◄ ►) to select the different modes. This TV set is also equipped with automatic tuning which will select the correct screen format, provided the specific signals are transmitted with the programmes.



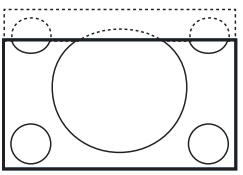
4:3
The picture is reproduced in 4:3 format and a black band is displayed on either side of the picture.



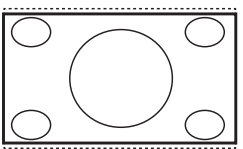
Movie expand 14:9
The picture is enlarged to 14:9 format, a thin black band remains on both sides of the picture.



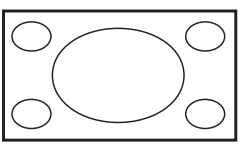
Movie expand 16:9
The picture is enlarged to 16:9 format. This mode is recommended when displaying pictures which have black bands at the top and bottom (letterbox format).



Subtitle Zoom
This mode is used to display 4:3 pictures using the full surface of the screen leaving the sub-titles visible.



Superzoom
This mode is used to display 4:3 pictures using the full surface of the screen by enlarging the sides of the picture.



Widescreen
The picture is displayed in the correct proportions of images transmitted in 16:9.

Note: If you display a 4:3 picture in this mode, it will be enlarged horizontally.

Smart Picture and Sound

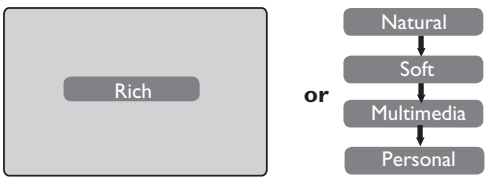
Smart Picture feature offers you a choice of 5 picture settings namely : **Rich, Natural, Soft, Multimedia** and **Personal**.

Smart Sound feature offers you a choice of 4 sound settings namely : **Theatre**, **Music**, **Voice**, and **Personal**.

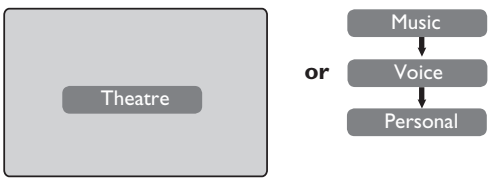
Note : The **Personal** setting is the setting that you set up using the Picture/Sound menu in the main menu. This is the only setting in the Smart Picture/Sound settings that can be changed. All other settings are pre-set at the factory.

Press SMART (Smart Picture) or SMART (Smart Sound) key repeatedly to cycle through the settings to select your desired mode.

Smart Picture settings



Smart Sound settings



Definition of Smart Picture settings

Rich : Brilliant and sharp picture settings suitable for bright environment and for use in demonstrations to show off the quality of the TV on good sources.

Natural : Reference mode for living room conditions and average signals.

Soft : Intended for bad-quality signals. Suitable for living room viewing.

Multimedia : Best for graphical applications.

Personal : Pictures settings are set to your preference.

Definition of Smart Sound settings

Theatre : Emphasize high and low tone (Bass and Treble boosted).

Music : Emphasize low tone (Bass boosted).

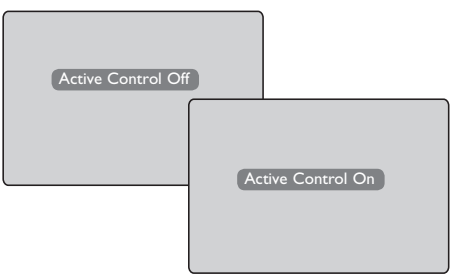
Voice : Emphasize high tone (Treble boosted).

Personal : Sound settings are set to your preference.

Active Control

Active Control feature automatically adjusts the picture setting for optimal picture quality continuously under any signal conditions.

❶ Press key repeatedly to alternate between **Active Control Off** and **Active Control On** options.

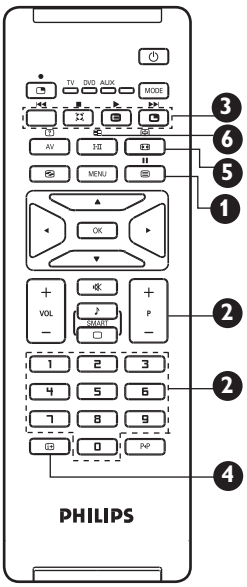


❷ Select the **Active Control On** option to activate the Active Control feature.

❸ Select the **Active Control Off** option to deactivate the Active Control feature.

Teletext

Teletext is an information system broadcast by certain channels which can be consulted like a newspaper. It also offers access to subtitles for viewers with hearing problems or who are not familiar with the transmission language (cable networks, satellite channels, etc.).



1 Teletext call

This is used to switch on or off teletext display. The summary appears with a list of items that can be accessed. Each item has a corresponding 3 digit page number. If channel selected does not broadcast teletext, the indication 100 will be displayed and the screen will remain blank. Proceed to exit teletext and select another channel.

2 Selecting a page

Enter the number of the page required using the **0** to **9** keys or **P –/+** keys. Example: page 120, enter **120**. The number is displayed at the top left corner of the screen. When the page is located, the counter stops searching. Repeat this operation to view another page. If the counter continues to search, this means that the page is not transmitted. Select another number.

3 Direct access to the items

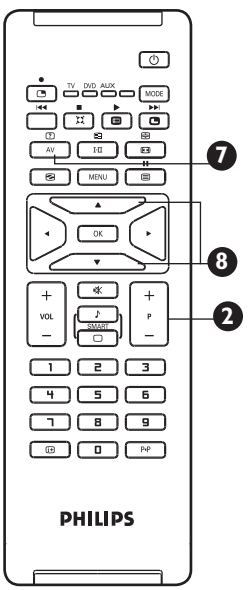
Coloured areas are displayed at the bottom of the screen. The 4 colour keys are used to access the items or corresponding pages. The coloured areas flash when the item or the page is not yet available.

4 Contents

This returns you to the contents page (usually page 100).

5 Sub-page display

Certain pages contain sub-pages which are automatically displayed successively. Press the key to hold sub-page and press the key a second time to resume. Use the ◄ ► keys to select previous or next sub-page.



6 Double page teletext

To activate or deactivate the double page teletext display mode. The active page is displayed on the left and the following page is displayed on the right. Press if you want to hold a page (i.e. the contents page). The active page is then displayed on the right. To return to normal mode, press the key.

7 Hidden information

To display or hide the concealed information (games solutions).

8 Enlarge a page

This allows you to display the top half or bottom half of the page. Pressing it again will return the page to normal size.

TV as a PC Monitor

Your TV can be used as a computer monitor.

Important

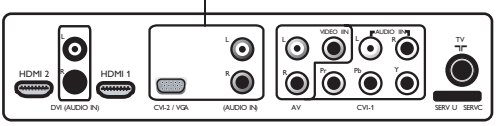
For the TV to function as PC monitor, the following steps must be taken :

STEP 1 **Connect the PC**

Via CVI 2/VGA

– Connect **VGA** output of the PC to the **CVI 2/VGA** input of the TV. Use a VGA to CVI adaptor.

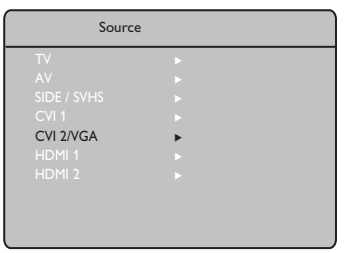
CVI 2/VGA inputs at bottom of TV



STEP 2 **Select the Source**

– Press AV key to display **Source List.**

– Select **CVI 2/VGA**.



– Press ▶ / OK key to switch to the selected source.

Accessing the PC menu

1. Press MENU key to display menu.
2. Press ▼ key to select **Features**.
3. Press ▶ / OK key to access **Features** menu.
4. Press ▼ key to select **Mode Selection**
5. If **HD** is displayed at **Mode Selection**, press ▶ key to select **PC**.
6. Press MENU key to display PC menu.
7. Press ▲ ▼ key to select the PC settings : **Picture, Audio Selection** or **Features.**
8. Press ◀ ▶ key to select or adjust setting.

Description of Picture settings

Brightness: Adjusts the brightness.

Contrast: Adjusts the contrast.

Horizontal: Adjusts the horizontal position of the image.

Vertical: Adjusts the vertical position of the image.

Colour Temp.: Changes the colour setting – **Cool** (bluer), **Normal** (balance) or **Warm** (redder).

Description of Audio Selection

– Select the audio from the TV or PC/HD.
– Press ◀ ▶ key to select the audio source.

Description of Features

Phase: Eliminates the horizontal interfeing lines.

Clock: Eliminates the horizontal interfeing lines.

Format: Select between full screen or native format of the PC screen. Press ◀ ▶ key to select the screen format.

PIP (Picture-in Picture): Allows you to call up a PIP screen of the **TV** or **HD** (High Defintion) device. For description of PIP menu items and how it works, refer to the section on "PIP (Picture-in-Picture)" on pages 20-21.

Auto Adjust: Position of image is set automatically.

Description of Reset to Factory Setting:
To return to factory settings (default settings).

NOTE

For more details on connection to the PC equipment, see guide "CONNECT".

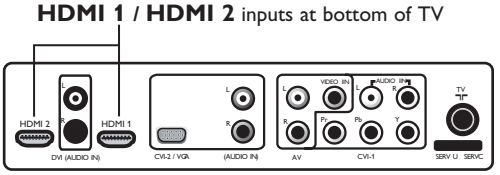
TV as a PC Monitor

STEP 1 **Connect the PC**

Via HDMI

– Connect **DVI** output of the PC to the **HDMI 1** or **HDMI 2** input of the TV. Use a DVI to HDMI adaptor.

HDMI 1 / **HDMI 2** inputs at bottom of TV

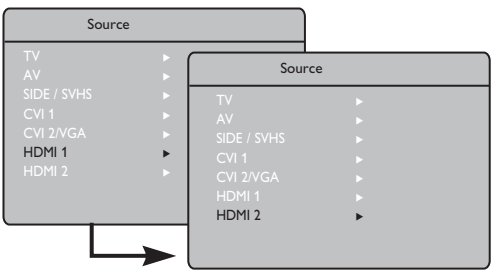


STEP 2 **Select the Source**

– Press AV key to display **Source List.**

– Press ▲ ▼ key to select **HDMI 1** or **HDMI 2**.

– Select **HDMI 1** or **HDMI 2**.



– Press ▶ / OK key to switch to the selected source.

Accessing the PC menu

1. Press MENU key to display menu.
2. Press ▼ key to select the **Features**.
3. Press ▶ / OK key to access **Features** menu.
4. Press ▼ key to select or **Mode Selection**
5. If **HD** is displayed at **Mode Selection**, press ▶ key to select **PC**.
6. Press MENU key to display PC menu.
7. Press ▲ ▼ key to select the PC settings : **Picture, Audio Selection** or **Features**.
8. Press ◀ ▶ key to select or adjust setting.

Description of Picture settings

Brightness: Adjusts the brightness.

Contrast: Adjusts the contrast.

Colour Temp.: Changes the colour setting – **Cool** (bluer), **Normal** (balance) or **Warm** (redder).

Description of Audio Selection

– Select the audio from the TV or PC/HD.
– Press ◀ ▶ key to select the audio source.

Description of Features

Format: Select between full screen or native format of the PC screen. Press ◀ ▶ key to select the screen format.

PIP (Picture-in Picture): Allows you to call up a PIP screen of the **TV** or **HD** (High Defintion) device. For description of PIP menu items and how it works, refer to the section on "PIP (Picture-in-Picture)" on pages 20-21.

Mode Selection: Select between HD or PC mode. Press ◀ ▶ key to select the mode.

Supported PC Resolutions

640 x 480, 60 Hz	800 x 600, 72 Hz
640 x 480, 67 Hz	800 x 600, 75 Hz
640 x 480, 72 Hz	1024 x 768, 60 Hz
640 x 480, 75 Hz	1024 x 768, 70 Hz
800 x 600, 56 Hz	1024 x 768, 75 Hz
800 x 600, 60 Hz	

TV in HD (High Definition) Mode

The HD (High Definition) mode allows you to enjoy clearer and sharper pictures if you are using a HD equipment that can produce high definition programming.

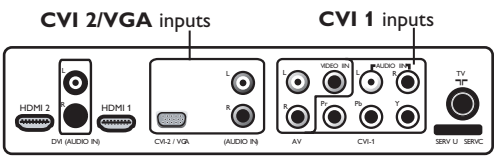
Important

For the TV to function in HD mode, the following steps must be taken :

STEP 1 Connect the HD equipment

Via CV1 or CVI 2/VGA

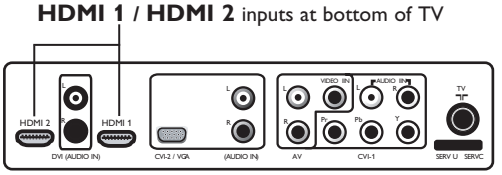
– Connect **VGA** output of the HD equipment to the **CVI 1** or **CVI 2/VGA** input of the TV. Use a VGA to CVI adaptor.



Bottom of TV

Via HDMI

– Connect **HDMI/DVI** output of the HD equipment to the **HDMI 1** or **HDMI 2** input of the TV. Use a HDMI to DVI adaptor if DVI is connected.



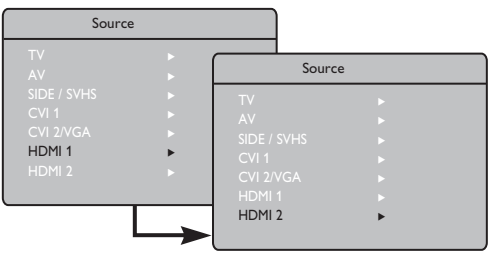
STEP 2 Select the Source

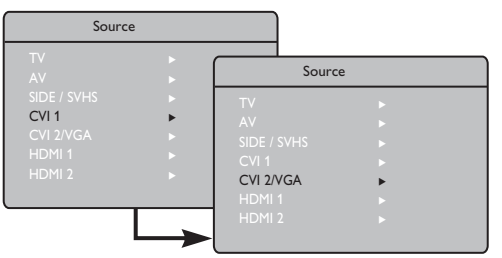
– Press AV key to display **Source List.**

– Press ▲ ▼ key to select **HDMI 1** or **HDMI 2** if you connect to a Digital HD equipment.

Select **CVI 1** or **CVI 2/VGA** if you connect to a Analogue HD equipment.

– Press ▶ / OK key to switch to the selected source.





TV in HD (High Definition) Mode

Accessing the HD menu

– Press MENU key to display the HD menu.

– Press ▲ ▼ key to select the HD settings : **Picture, Sound** or **Features**.

– Press ▶ / OK key to access selected setting.

– Press ◀ ▶ key to select and adjust setting.

HD Picture and Sound settings
Functions of HD Picture and Sound settings work in exactly the same way as the TV Picture and Sound settings (see page 10).

HD Features
Timer: Functions of the Sleeptimer and Timer work in exactly the same way as the TV Sleeptimer and Timer (see page 11).

PIP (Picture-in Picture): Allows you to call up a PIP screen of the **TV** or **PC**. For description of PIP menu items and how it works, refer to the section on "PIP (Picture-in-Picture)" on pages 20-21.

Horizontal Shift : Adjust the horizontal position of the image.

Vertical Shift : Adjust the vertical position of the image.

* **Mode Selection** : When you connect PC or HD equipment supporting resolutions of **480p, 576p** or **720p**, the **Mode Selection** in the **Features** menu will be highlighted. This will allow you to select between the PC and HD mode. If it does not support the 480p, 576p or 720p resolutions, you cannot access this function.

Supported HD format
480p 576p 720p 1080i

NOTE : For more details on connection to the HD equipment, see guide " CONNECT".

Your Philips TV is HDMI compliant. If you do not get a good picture, please change the video format on your device (DVD player, cable set-top box, etc.) to a standard format. For example, for DVD player, select 480P, 576p, 720p or 1080i. For PC, select 640 x 480, 800 x 600 or 1024 x 768. If the problem persists, please refer to your PC user manual on possible software upgrades to your graphics card.

Please note that this is not a defect of the TV set.

PIP (Picture-in-Picture)

The **PIP** (Picture-in-Picture) feature allows you to call up a PIP screen of the **PC** (Personal Computer) or **HD** (High Defintion) equipment while watching a TV programme. Likewise, you can also call up a PIP screen of the TV while you are in PC or HD mode.

Important

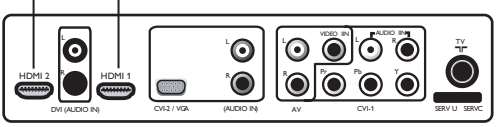
To call up a **PIP** screen, the following steps must be taken :

Connect your PC equipment

Via HDMI 1 or **HDMI 2**

– Connect **HDMI 1** or **HDMI 2** input of the TV to the **DVI** output of the PC. Use a DVI to HDMI adaptor.

HDMI 1 / HDMI 2 inputs at bottom of TV

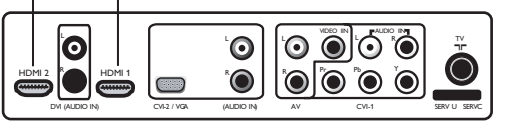


Connect your HD equipment

Via HDMI 1 or **HDMI 2**

– Connect **HDMI 1** or **HDMI 2** input of the TV to the HDMI/DVI output of the HD equipment. Use a HDMI to DVI adaptor if DVI is connected.

HDMI 1 / HDMI 2 inputs at bottom of TV



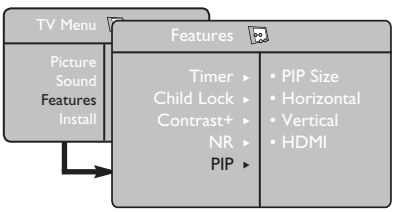
NOTE : For more details on connection to the HD equipment, see guide " CONNECT".

PIP (Picture-in-Picture)

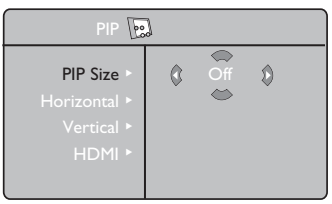
Accessing the PIP via the PIP menu

Note : This is only possible when PIP signal is detected.

1. Press MENU key to display main menu.
2. Press ▲ ▼ key, select **Features** and the ► / OK key to enter the **Features** menu.
3. Press ▲ ▼ keys to select **PIP**



4. Press ► / OK key to enter **PIP** menu.



5. Press ▲ ▼ keys to select **PIP** menu items.
6. Press ◄ ► ▲ ▼ keys to access the **PIP** menu items, make the following adjustments or options.
7. To exit the PIP screen, select **PIP Size**. followed by the **Off** option.

Accessing PIP with the PIP key

1. Press key on the remote control to display PIP screen. A small PIP screen will appear on the TV screen.
2. Press key a second time to change the small PIP screen to a medium PIP screen size.
3. Press key a third time to change the medium PIP screen to large PIP screen size
4. Press key a fourth time to change the large PIP screen to a Side-by-Side (a TV screen on one side and the PIP screen on the other side).
5. Press key a fifth time to exit PIP screen.

Definitions of PIP items

PIP Size : Select your PIP size (**Off, Small, Medium, Large** and **Side-by-Side**).

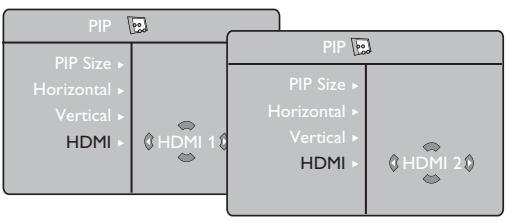
Horizontal : Move the PIP screen horizontally from left to right and vice-versa.

Vertical : Move the PIP screen vertically from top to bottom and vice-versa.

HDMI

If you call up a PIP screen from the **HDMI 1** or **HDMI 2** source, you have no access to HDMI selection.

If you call up a PIP screen from the other sources, you can select between **HDMI 1** or **HDMI 2** in the PIP menu.



Troubleshooting Tips

Below is a list of symptoms you may encounter with your TV. Before you call for service, make these simple checks.

Symptom	Possible Causes	What you should do
No display on screen	• Faulty power supply • TV's Power not turned	• Check whether power cord is properly connected into the mains socket and to your TV. If there is still no power, disconnect plug. Wait for 60 seconds and re-insert plug. Switch on TV again. • Press the ⏻ key on the remote control.
Poor reception (snowish picture and noise)	• Faulty antenna connection • Weak transmission • Wrong TV system	• Check antenna connection at rear of TV. • Try to fine tune your picture (see to page 8). • Have you chosen the right TV system? (see to page 8).
No picture	• Faulty aerial and cable • Wrong source selected	• Check whether cables or aerial sockets are properly connected. • Check whether the source is correctly selected. Press AV button to enter Source list and select the correct source.
No sound on certain channels	• Wrong TV system	• Check whether the correct TV system is selected (see to page 8).
No sound	• Zero volume level • Sound muted	• Try increasing volume. • Check that the mute (🔇) mode is not on. If mute mode is on, press the 🔇 key to deactivate mute mode.
Sound interference	• Electrical appliances interference	• Try switching off any electrical appliances, for example, hairdryer, vacuum cleaner that are in use.
TV not responding to remote control	• Wrong placement of batteries • Flat batteries	• Check the placement of the batteries. • Try changing the batteries. • Aim remote control directly at sensor on front of TV.
Intermittent or flickering picture in HD mode	• * HDCP (see glossary) authentication failed	• Noise is displayed if the connected digital equipment's (DVD player or Set-Top box) *HDCP authentication failed. Check user manual for the digital equipment you are connecting. • Use a standard HDMI to DVI cable.
No sound or picture but front panel red light is on	• Set on standby mode	• Press the ⏻ key on the remote control.
Cannot access Install menu	• In AV, EXTERNAL or HD mode	• Press AV key and select TV mode. You can now access the Install menu by using the Menu key.
S-Video colour becomes faint	• Wrong detection of signal	• Check whether power cord is properly connected • Press the **P +** key on the remote control to do a channel up and then press the **P –** key to do a channel down.

Troubleshooting Tips

Symptom	Possible Causes	What you should do
PC modes do not work	• Wrong connections	• Check whether connections are correct. (see "TV as PC Monitor" on page 16). For more details on connection to the PC equipment, see guide "Connect".
	• Wrong source selected.	• Check whether the source is correctly selected. Press AV button to enter Source list and select the correct source.
	• Wrong display resolution	• Check whether you have configured the computer on a compatible display resolution (see "TV as PC Monitor" on page 17).
	• Wrong setting of PC graphic card	• Check graphic card setting of PC.
Black bar on top and bottom of screen in PC mode	• PC refresh rate too high	• Change PC refresh rate to 60 Hz.

Warning concerning stationary images on the TV screen

A characteristic of Plasma Display Panels is that displaying the same image for a long time can cause a permanent after-image to remain on the screen. This is called phosphor burn in. Normal use of the TV should involve the showing of pictures that contain constantly moving and changing images that fill the screen.

Glossary

DVI (Digital Visual Interface) : A digital interface standard created by the Digital Display Working Group (DDWG) to convert analog signals into digital signals to accommodate both analog and digital monitors.

VGA (Video Graphics Array) : a common standard graphics display system for PCs.

RGB signals : These are the three video signals, Red Green Blue, which make up the picture. Using these signals improves picture quality.

S-VHS signals : These are 2 separate Y/C video signals from the S-VHS and Hi-8 recording standards. The luminance signals Y (black and white) and chrominance signals C (colour) are recorded separately on the tape. This provides better picture quality than with standard video (VHS and 8 mm) where the Y/C signals are combined to provide only one video signal.

16:9 : Refers to the ratio between the length and height of the screen. Wide screen televisions have a ratio of 16:9, conventional screen TV sets have a ratio of 4:3.

HDMI (High-Definition Multimedia Interface) : Provides an uncompressed, all digital audio/video interface between the TV and any HDMI-equipped audio/video component, such as set-top box, DVD player and A/V receiver. HDMI supports enhanced or high-definition video plus two-channel digital audio.

NTSC : NTSC is the analog television system in use in Korea, Japan, United States, Canada and certain other places, mostly in the Americas (see map). It is named for the National Television System(s) Committee, the industry-wide standardization body that created it.

PAL (Phase Alternating Line): is a colour encoding system used in broadcast television systems in large parts of the world.

HDCP (High-bandwidth Digital-Content Protection): HDCP encrypts the transmission of digital content between the video source or transmitter such as a computer, DVD player or set-top box and the digital display or receiver such as a monitor, television or projector.

Specifications

	42PF7xxxx	50PF7xxxx
Panel screen size	1070 mm (42”)	1270 mm (50”)
Audio output	2 x 15 W	2 x 15 W
TV System	PAL, SECAM	
Video playback	NTSC, PAL, SECAM	
Sound System	Mono, Nicam Stereo, Virtual Dolby Surround	
Connectivity		
Rear	TV 75 Ω, AV In, CVI 1, CVI 2 / VGA, VGA Audio In DVI Audio In, HDMI 1, HDMI 2,	
Side	Audio In, Video In, S-Video In, Headphone	
Power consumption	160 W	290 W
Standby power consumption	< 1 W	< 1 W
Set dimensions (with stand)		
Width	1236 mm	1416 mm
Depth	280 mm	280 mm
Height	720 mm	812 mm
Nett Weight (with stand)	39 kg	50 kg

Note: Specification is subject to change without notice.

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